PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	N89				
To: BINAL J. PATEL BANNER & WITCOFF, LTD. TEN S. WACKER DRIVE SUITE 3000 TO: DOCKETI APR 2 1 2004	NOTIFICATION OF TRANSMITTAL OF				
CHICAGO, IL 60606-7407 Roshact due					
art 19 due 011736,00151-IDS due 5/14/ Fast day IDS-7/14/2004	6/19/2 004 (PCT Rule 44.1)				
fast day IOS -7/14/2004	Date of Mailing (day/month/year)				
Applicant's or agent's file reference 011738.00189	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US03/32941	International filing date (day/month/year) 15 October 2003 (15.10.2003)				
Applicant MEDTRONIC INC.					
- '	arch report has been established and is transmitted herewith.				
Filing of amendments and statement under Article 19. The applicant is entitled, if he so wishes, to amend the or					
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.					
Where? Directly to the International Bureau of WII 1211 Geneva 20, Switzerland, Facsimile N	PO, 34, chemin des Colombettes				
For more detailed instructions, see the notes on the accompanying sheet. BANNER & WITCOF					
The applicant is hereby notified that no international search report will be established and that the declaration under CKETING DEPT. Article 17(2)(a) to that effect is transmitted herewith.					
3. With regard to the protest against payment of (an) add	litional fee(s) under Rule 40.2, the applicant is notified that:				
	peen transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the a	applicant will be notified as soon as a decision is made.				
4. Reminders					
applicant wishes to avoid or postpone publication, a notice of	onal application will be published by the International Bureau. If the withdrawal of the international application, or of the priority claim, is.1 and 90 bis.3, respectively, before the completion of the technical				
examination must be filed if the applicant wishes to postpone	of some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority st, within 20 months from the priority date, perform the prescribed ffices.				
In respect of other designated Offices, the time limit of 30 mon	ths (or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet signal.	ne applicable time limits, Office by Office, see the PCT Applicant's te.				
Name and mailing address of the ISA/US	Authorized officer)				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Michael Astorino				
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (703) 306-5648				
Facsimile No. (703)305-3230 Form PCT/ISA/220 (April 2002)	(See notes on accompanying sheet)				

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: BINAL J. PATEL BANNER & WITCOFF, LTD. TEN S. WACKER DRIVE SUITE 3000 CHICAGO, IL 60606-7407	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of Mailing (day/month/year) 14 APR 2004			
Applicant's or agent's file reference 011738.00189 FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US03/32941	International filing date (day/month/year) 15 October 2003 (15.10.2003)			
Applicant MEDTRONIC INC.				
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the c				
international search report. Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders				
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	Authorized officer Michael Astorino Telephone No. (703) 306-5648			

Facsimile No. (703)305-3230 Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/32941

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet	Box III	TEXT OF THE	ABSTRACT	(Continuation	of Item 5	of the	first sheet
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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

Apparatus and method support the synchronization and calibration of a plurality of clocks in a medical device system that may provide treatment to a patient with a nervous system disorder. The plurality of clocks, which may be located at different components of the medical device system, comprises a first and a second clock. The second clock may be synchronized (1517) to a first clock by disabling a run mode operation and setting the second clock to a selected time. When a reference time of the first clock approximately equals the selected time, the second clock enables the run mode operation. Additionally, a drift time that is indicative of a time difference between the first clock and the second clock is determined. If the drift time is greater than a predetermined amount, an indication to resynchronized the first and second clocks is provided.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (second sheet) (July 1998)

International application No.

PCT/US03/32941

		101/0505/525/11	ı	
IPC(7) US CL	SSIFICATION OF SUBJECT MATTER : A61B 5/00 : 600/300 International Patent Classification (IPC) or to both no	ational classification and IPC		
	DS SEARCHED			
	cumentation searched (classification system followed 00/300-301; 128/920; 607/45	by classification symbols)		
Documentation NONE	on searched other than minimum documentation to the	e extent that such documents are included in	the fields searched	
Electronic da West 2.1	ta base consulted during the international search (nam	ne of data base and, where practicable, sear	ch terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.	
A, E	US 6,671,556 B2 (Osorio et al.) 12 December 2003	3, see entire document	1-53	
A, P	US 6,587,727 B2 (Osorio et al.) 01 July 2003, see	1-53		
A, P	US 6,560,486 B1 (Osorio et al.) 06 May 2003, see	1-56		
Α	US 5,995,868 A (Dorfmeister et al.) 30 November	. 1		
Further	documents are listed in the continuation of Box C.	See patent family annex.		
* S _I	pecial categories of cited documents:	"T" later document published after the inter		
	defining the general state of the art which is not considered to be lar relevance	date and not in conflict with the applica principle or theory underlying the inver		
E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the c considered novel or cannot be consider when the document is taken alone		
document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the c considered to involve an inventive step	when the document is	
"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the		
	published prior to the international filing date but later than the tte claimed	"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international searce 14 APR 200		
	94 (13.03.2004)		· _ · _	
Mail	iling address of the ISA/US I Stop PCT, Attn: ISA/US amissioner for Patents	Authorized officer Michael C. Astorino		
Alex	. Box 1450 candria, Virginia 22313-1450 . (703)305-3230	Telephone No. (703) 306-5648		

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	icant's 0 38.0018	or agent's file reference 9	FOR FURTHER ACTION		
	national 'US03/3	application No. 2941	International filing date (day/month/year) (Ea		(Earliest) Priority Date (day/month/year) 15 October 2002 (15.10.2002)
Appli MED	icant TRONI	C INC.			
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.					
 Basis of the Report With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 					
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:					
	contained in the international application in written form.				
	filed together with the international application in computer readable form.				
	furnished subsequently to this Authority in written form.				
	furnished subsequently to this Authority in computer readable form.				
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		the statement that the information been furnished.	nation recorded in computer readable	e form is id	dentical to the written sequence listing has
2.	Unity of invention is lacking (See Box II).				
3.					
4.	4. With regard to the title,				
	the text is approved as submitted by the applicant.				
the text has been established by this Authority to read as follows:					
5.	With re	egard to the abstract,			
		the text is approved as subm	aitted by the applicant.		
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The app within one month from the date of mailing of this international search report, submit comments to this Authority					
6.	The fig	gure of the drawings to be pul	blished with the abstract is Figure N	o. <u>15</u>	
		as suggested by the applican	ıt.		None of the figures
	\boxtimes	because the applicant failed	to suggest a figure.		
		because this figure better ch	aracterizes the invention.		

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added." "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the intrinational search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.